

AMENDMENTS TO THE CLAIMS

1-2 (Canceled)

3. (Currently Amended) ~~A system as in claim 1, further comprising: A~~
telecommunications toll switch system connecting callers with called service sponsors, the
telecommunications toll switch system comprising:

toll switches forming a network;

a shared database computer connected to a toll switch of the toll switches, the
shared database computer having a database storing routing plans defining routes connecting the
callers to a called service sponsor of the called service sponsors;

the shared database computer being programmed to return instructions to the toll
switch in response to a query from the toll switch, the query being generated by the toll switch in
response to a call from a caller of the callers to the called service sponsor, the query indicating
initial route information followed by the call before reaching the toll switch, the instructions
indicating a specific route for the call to be implemented by the toll switch in response to the
instructions, the initial route information providing an indication of a route followed by the call
from the caller to the toll switch, and a routing plan of the routing plans defining alternative
routes from which the specific route is selected by the shared database computer in response to
the routing plan and the initial route information; and

an announcement system connected to said at least one of said toll switches, said
the toll switch, the announcement system having a recording indicating that a specified rate is to
be applied to [[said]] the call[:];,

[[said]] the routing plan being such that [[said]] the specific route is a first
route when [[said]] the initial route information includes an indication that [[said]] the call was
operator-assisted[:], and

[[said]] the first route being such that [[said]] the announcement system is
controlled to play [[said]] the recording when [[said]] the specific route is [[said]] the first route.

4. (Currently Amended) ~~A system as in claim 1~~ The system of claim 3, wherein ~~[[said]]~~ the routing plan is such that ~~[[said]]~~ the specific route is a second route when ~~[[said]]~~ the initial route information includes an indication that ~~[[said]]~~ the call originated from a cellular phone.

5. (Currently Amended) ~~A system as in claim 1~~ The system of claim 3, wherein ~~[[said]]~~ the routing plan is such that ~~[[said]]~~ the specific route is a third route when ~~[[said]]~~ the initial route information lacks an identification of the caller.

6. (Currently Amended) ~~A system as in claim 5~~ The system of claim 5, further comprising a support system computer connected to ~~[[said]]~~ the shared database computer and programmed to update ~~[[said]]~~ the routing plans in response to input data directly entered by ~~[[said]]~~ the called service sponsors.

7. (Currently Amended) ~~A system as in claim 1, further comprising: A~~ telecommunications toll switch system connecting callers with called service sponsors, the telecommunications toll switch system comprising:

toll switches forming a network;

a shared database computer connected to a toll switch of the toll switches, the shared database computer having a database storing routing plans defining routes connecting the callers to a called service sponsor of the called service sponsors;

the shared database computer being programmed to return instructions to the toll switch in response to a query from the toll switch, the query being generated by the toll switch in response to a call from a caller of the callers to the called service sponsor, the query indicating initial route information followed by the call before reaching the toll switch, the instructions indicating a specific route for the call to be implemented by the toll switch in response to the instructions, the initial route information providing an indication of a route followed by the call from the caller to the toll switch, and a routing plan of the routing plans defining alternative routes from which the specific route is selected by the shared database computer in response to the routing plan and the initial route information; and

an announcement system connected to ~~said at least one of said toll switches~~ the toll switch, [[said]] the announcement system having a recording indicating that a specified rate is to be applied to [[said]] the call;

[[said]] the routing plan ~~being is~~ such that [[said]] the specific route is a third route when [[said]] the initial route information lacks an identification of the caller; and ~~said the~~ third route ~~being is~~ such that [[said]] the announcement system is controlled to play [[said]] the recording when [[said]] the specific route is ~~said the~~ third route.

8. (Currently Amended) ~~A system as in claim 1~~ The system of claim 3, wherein:

[[said]] the routing plan is such that [[said]] the specific route is a third route when [[said]] the initial route information lacks an identification of the caller; and

[[said]] the third route includes an operator for obtaining credit information from ~~said one of said callers~~ the caller.

9. (Currently Amended) ~~A system as in claim 1~~ The system of claim 3, wherein [[said]] the routing plan is such that [[said]] the specific route is a fourth route when [[said]] the initial route information includes an indication that [[said]] the call originated from one of a specified [[LEC]] local exchange carrier and a specified area code.

10. (Currently Amended) ~~A system as in claim 9~~ The system of claim 9, further comprising a support system computer connected to [[said]] the shared database computer and programmed to update [[said]] the routing plans in response to input data directly entered by [[said]] the called service sponsors.

11. (Currently Amended) ~~A system as in claim 1~~ The system of claim 3, further comprising a support system computer connected to [[said]] the shared database computer and programmed to update [[said]] the routing plans in response to input data directly entered by [[said]] the called service sponsors.

12-13 (Canceled)

14. (Currently Amended) ~~A system as in claim 12, further comprising: A~~
telecommunications toll switch system connecting callers with called service sponsors, the
telecommunications toll switch system comprising:
 a network having toll switches;
 a database computer connected to an originating toll switch of the toll switches;
and
 the database computer having a database storing routing plans defining alternative
routes that connect the callers to a termination of a called service sponsor of the called service
sponsors;
 each of the alternative routes being determined based on a parameter supplied in a
query receivable by the database computer from the originating toll switch;
 the originating toll switch being programmed to generate the query responsively
to a call received by the originating toll switch from a caller of the callers to the called service
sponsor;
 the originating toll switch being programmed to implement a specific route
determined based on the parameter after receiving data from the database computer responsive to
a routing plan of the routing plans and the query;
 the parameter being one of data identifying a calling party number used by the
caller to place the call, data indicating that the call arrived at the originating toll switch through a
human operator, and data indicating that the call originated from a cellular telephone; and
 an announcement system connected to said at least one of said a toll switch of the
toll switches, [[said]] the announcement system having a recording indicating that a specified
rate is to be applied to [[said]] the call[:];,
 [[said]] the parameter is data indicating whether [[said]] the call arrived at
[[said]] the originating toll switch through a human operator and [[said]] the routing plan being
defined such that [[said]] the specific route is a first route when [[said]] the parameter indicates
[[said]] the call arrived through a human operator[:];, and
 [[said]] the first route being such that [[said]] the announcement system is
controlled to play [[said]] the recording when [[said]] the specific route is [[said]] the first route.

15. (Currently Amended) ~~A system as in claim 12~~ The system of claim 14, wherein
[[said]] the parameter is data indicating that [[said]] the call originated from a cellular telephone.

16. (Currently Amended) ~~A system as in claim 12~~ The system of claim 14, wherein
[[said]] the parameter is data identifying a calling party number used by [[said]] the caller to
place [[said]] the call ~~or data incompletely identifying said calling party number.~~

17. (Currently Amended) ~~A system as in claim 12~~ The system of claim 14, further
comprising:

a support system computer connected to [[said]] the database computer and
programmed to update [[said]] the routing plans in response to input data directly entered by
[[said]] the called service sponsors;

[[said]] the support system computer being programmed to represent [[said]] the
routing plans as ~~at least one~~ a graphical object with each of [[said]] the alternative routes
corresponding to a branch-shaped portion of [[said]] the graphical object.

18. (Currently Amended) ~~A system as in claim 12, further comprising:~~ A
telecommunications toll switch system connecting callers with called service sponsors, the
telecommunications toll switch system comprising:

a network having toll switches;

a database computer connected to an originating toll switch of the toll switches;

and

the database computer having a database storing routing plans defining alternative
routes that connect the callers to a termination of a called service sponsor of the called service
sponsors;

each of the alternative routes being determined based on a parameter supplied in a
query receivable by the database computer from the originating toll switch;

the originating toll switch being programmed to generate the query responsively
to a call received by the originating toll switch from a caller of the callers to the called service
sponsor;

the originating toll switch being programmed to implement a specific route determined based on the parameter after receiving data from the database computer responsive to a routing plan of the routing plans and the query;

the parameter being one of data identifying a calling party number used by the caller to place the call, data indicating that the call arrived at the originating toll switch through a human operator, and data indicating that the call originated from a cellular telephone; and

an announcement system connected to said at least one of said toll switches a toll switch of the toll switches, [[said]] the announcement system having a recording indicating that a specified rate is to be applied to [[said]] the call[:];,

[[said]] the parameter being data identifying a calling party number used by said caller to place said call or data incompletely identifying [[said]] a calling party number used by said caller to place the call[:];,

[[said]] the routing plan being defined such that [[said]] the specific route is a third route when [[said]] the data incompletely identifies [[said]] the calling party number[:];, and

[[said]] the routing plan being defined such when [[said]] the specific route is [[said]] the third route, [[said]] the announcement system is controlled to play [[said]] the recording when [[said]] the specific route is [[said]] the third route.

19. (Currently Amended) ~~A system as in claim 12~~ The system of claim 14, wherein:

[[said]] the parameter is data identifying a calling party number used by said caller to place said call or data incompletely identifying [[said]] a calling party number used by the caller to place the call;

[[said]] the routing plan being defined such that [[said]] the specific route is a third route when [[said]] the data incompletely identifies [[said]] the calling party number; and

[[said]] the third route directs [[said]] the call to a human operator.

20. (Canceled)

21. (Currently Amended) A method for permitting control of call routing and billing by sponsors of pay-for-call services in a toll network system having toll switches, a central database

computer connected to ~~[[said]]~~ the toll switches having a routing plan stored therein, the method comprising ~~the steps of~~:

modifying ~~said call routing plans~~ the routing plan by insertion or deletion of an element that causes a call to be routed to a first termination when an ~~[[ANI]]~~ automatic number identification record detected by an originating toll switch ~~[[one]]~~ of ~~[[said]]~~ the toll switches is incomplete;

transmitting ~~[[ANI]]~~ automatic number identification data relating to ~~[[a]]~~ the call from ~~said originating one of said toll switches~~ the originating toll switch to ~~[[said]]~~ the central database computer;

determining specific instructions for routing ~~[[said]]~~ the call from ~~[[said]]~~ the routing plan modified by ~~said step of modifying~~ and transmitting ~~[[said]]~~ the specific instructions to ~~[[said]]~~ the originating ~~one of said toll switches~~ toll switch; and

receiving at ~~[[said]]~~ the originating toll switch ~~one of said toll switches~~ said specific instructions and routing ~~[[said]]~~ the call from ~~[[said]]~~ the originating ~~one of said toll switches~~ toll switch to ~~[[said]]~~ the first termination when ~~said ANI~~ the automatic number identification record detected by ~~[[said]]~~ the originating ~~one of said toll switches~~ toll switch is incomplete.

22. (Currently Amended) A method for permitting control of call routing and billing by sponsors of pay-for-call services in a toll network system having toll switches, a central database computer connected to ~~[[said]]~~ the toll switches having a routing plan stored therein, the method comprising ~~the steps of~~:

modifying ~~said call routing plans~~ the routing plan by insertion or deletion of an element that causes a call to be routed to a first termination if an OSPS record, indicating that ~~[[said]]~~ the call originated through an operator, detected by an originating ~~one of said toll switch~~ of the toll switches is incomplete;

transmitting the OSPS record relating to ~~[[a]]~~ the call from ~~[[said]]~~ the originating ~~one of said toll switches~~ toll switch to ~~[[said]]~~ the central database computer;

determining specific instructions for routing ~~[[said]]~~ the call from ~~[[said]]~~ the routing plan modified by ~~said step of modifying~~ and transmitting ~~[[said]]~~ the specific instructions to ~~[[said]]~~ the originating ~~one of said toll switches~~ toll switch; and

receiving at [[said]] ~~the originating one of said toll switches~~ said toll switch the specific instructions and routing [[said]] ~~the call from~~ the originating toll switch ~~one of said toll switches~~ to [[said]] ~~the first termination when~~ the OSPS record detected by [[said]] ~~the originating one of said toll switches~~ toll switch indicates [[said]] ~~the call originated through an operator.~~

23. (Currently Amended) A telecommunications toll switch system connecting callers with called service sponsors, the telecommunications toll switch system comprising:

toll switches forming a network; and

a shared database computer connected to ~~at least one of said a toll switch of the~~ toll switches, [[said]] ~~the shared database computer having a database storing routing plans corresponding to~~ at least one of said the called service sponsors[:];, [[said]] ~~the routing plans defining a specific route to be implemented by an originating toll switch of~~ the toll switches when a call is received by [[said]] ~~the originating toll switch,~~ the specific route being one of ~~at least two alternative routes,~~ the at least two alternative routes possibly ending at the same destination[:];,

[[said]] ~~the two alternative routes being modifiable by a support system computer connected to~~ the shared database computer through a program running thereon and addressable through at least one of telephone prompting, communication through direct modem connection via a termination, and connection through the Internet[:];,

[[said]] ~~the two alternative routes being defined by a conditional branch point, called a test node, from which stem two alternate branches, each~~ of the two alternate branches corresponding to [[a]] one of [[said]] ~~the two alternative routes,~~ the specific route corresponding to the one of [[said]] ~~the two alternate branches that is connected to an outcome of~~ the test node that satisfies a condition of [[said]] ~~the test node[:];, and~~

[[said]] ~~the condition of~~ the test node being determined by a feature of data corresponding to an origin of [[said]] ~~the call,~~ the data being communicated to [[said]] ~~the database computer through a query from~~ the originating toll switch to [[said]] ~~the shared database computer.~~

24. (Currently Amended) A telecommunications toll switch system connecting callers with called service sponsors, the telecommunications toll switch system comprising:

toll switches forming a network;

a shared database computer connected to ~~at least one of said toll switches~~ a toll switch of the toll switches, ~~[[said]] the~~ shared database computer having a database storing routing plans corresponding to ~~at least one of said~~ a called service sponsor of the called service sponsors; and

a billing recorder connected to ~~[[said]] the~~ toll switch, ~~[[said]] the~~ billing recorder recording a duration of a call and a rate to be applied to ~~[[said]] the~~ call on a billing record[:];

~~[[said]] the~~ routing plans defining a specific route to be implemented by an originating toll switch of ~~[[said]] the~~ toll switches when a call is received by ~~[[said]] the~~ originating toll switch, ~~[[said]] the~~ specific route being one of ~~at least~~ two alternative routes, ~~[[said]] the~~ ~~at least~~ two alternative routes possibly ending at the same destination[:];

~~[[said]] the~~ two alternative routes being modifiable by a support system computer connected to ~~[[said]] the~~ shared database computer through a program running thereon and addressable through at least one of telephone prompting, communication through direct modem connection via a termination, and connection through the Internet[:];

~~[[said]] the~~ two alternative routes being defined by a conditional branch point, called a test node, from which stem two alternate branches, each of the two alternate branches corresponding to ~~[[a]] one of~~ ~~[[said]] the~~ two alternative routes, ~~[[said]] the~~ specific route corresponding to the one of ~~[[said]] the~~ two alternate branches that is connected to an outcome of ~~[[said]] the~~ test node that satisfies a condition of ~~[[said]] the~~ test node[:];

at least one of ~~[[said]] the~~ two alternate branches having an object, called a rate node, that forces ~~[[said]] the~~ rate to be applied to ~~[[said]] the~~ call to be overridden when ~~said~~ ~~at least the one of~~ ~~[[said]] the~~ two alternate branches is connected to ~~[[said]] the~~ outcome, whereby ~~[[said]] the~~ billing recorder records an override rate on ~~[[said]] the~~ billing record when ~~[[said]] the~~ condition is satisfied[:]; and

~~[[said]] the~~ branch point being ~~[[a]] the~~ test node in which ~~[[said]] the~~ condition is determined by a parameter indicating an origin of ~~[[said]] the~~ call from a caller of ~~[[said]] the~~ callers, ~~[[said]] the~~ parameter being communicated to ~~[[said]] the~~ shared database

computer through a query from ~~[[said]]~~ the originating toll switch to ~~[[said]]~~ the shared database computer.

25. (Currently Amended) ~~A system as in claim 24~~ The system of claim 24, wherein ~~[[said]]~~ the parameter indicates whether ~~[[said]]~~ the call originated through operator-assistance.

26. (Currently Amended) ~~A system as in claim 24~~ The system of claim 24, further comprising:

an announcement system connected to ~~said at least one of said toll switches~~ the toll switch, ~~[[said]]~~ the announcement system having a recording indicating that ~~[[said]]~~ the rate is to be applied to ~~[[said]]~~ the call;

~~[[said]]~~ a routing plan ~~of the routing plans~~ being such that ~~[[said]]~~ the one of ~~[[said]]~~ the two alternative branches defines a first route when ~~[[said]]~~ the parameter indicates that ~~[[said]]~~ the call was operator-assisted; and

~~[[said]]~~ the first route being defined such that ~~[[said]]~~ the announcement system is controlled to play ~~[[said]]~~ the recording when ~~[[said]]~~ the specific route is ~~[[said]]~~ the first route.

27. (Currently Amended) ~~A system as in claim 24~~ The system of claim 24, wherein ~~[[said]]~~ the parameter indicates whether ~~[[said]]~~ the call originated from a cellular phone.

28. (Currently Amended) ~~A system as in claim 24~~ The system of claim 24, wherein ~~[[said]]~~ the parameter is an indication of ~~a lack of a caller~~ [[ANI]] automatic number identification ~~or lack thereof~~ which identifies ~~the calling telephone number or, if the ANI is lacking, the~~ a local exchange company of ~~[[said]]~~ the caller.

29. (Currently Amended) ~~A system as in claim 28~~ The system of claim 28, further comprising:

an announcement system connected to ~~said at least one of said toll switches~~ the toll switch, ~~[[said]]~~ the announcement system having a recording indicating that ~~[[said]]~~ the rate is to be applied to ~~[[said]]~~ the call;

[[said]] the routing plan being such that [[said]] the one of [[said]] the two alternative branches defines a third route when [[said]] the parameter indicates that ~~an ANI~~ the caller automatic number identification is lacking; and

[[said]] the third route being defined such that [[said]] the announcement system is controlled to play [[said]] the recording when [[said]] the specific route is [[said]] the third route.

30. (Currently Amended) ~~A system as in claim 28~~ The system of claim 28, wherein:

[[said]] the routing plan is such that [[said]] the specific route is a third route when [[said]] the parameter indicates ~~said ANI~~ the caller automatic number identification is lacking; and

[[said]] the third route routes [[said]] the call through an operator to obtain credit information from [[said]] the caller.

31. (Currently Amended) ~~A system as in claim 1~~ The system of claim 24, wherein [[said]] the parameter is an indication that [[said]] the call originated from one of a specified [[LEC]] local exchange carrier and a specified area code.

32-37 (Canceled)

38. (Currently Amended) ~~A method as in claim 36~~ The method of claim 41, wherein [[said]] the call-origin-data includes data indicating that [[said]] the call originated through an operator.

39. (Currently Amended) ~~A method as in claim 36~~ The method of claim 41, wherein [[said]] the call-origin-data includes data indicating that [[said]] the call originated from a cellular phone.

40. (Canceled)

41. (Currently Amended) ~~A method as in claim 36, wherein:~~ A method for controlling a plurality of telecommunications switches, the method comprising:

receiving, at a database computer connected to a telecommunications switch of the plurality of telecommunications switches, call-origin-data defining an origination route of a call to the telecommunications switch;

determining, at the database computer, a selected route responsively to a condition and the call-origin-data; and

transmitting in response thereto the selected route back to the telecommunications switch, wherein transmitting the selected route is responsive to a database of the database computer defining routes through which the call may be routed to a final termination, the selected route being one of the routes, the selected route being selected from among the routes responsively to the condition satisfiable by the call-origin-data.

~~[[said]] the call-origin-data includes data indicating one of an ANI or an indication that said ANI that automatic number identification is not provided by a local exchange company from which [[said]] the call originated[[:]; and~~

~~[[said]] the selected route includes an indication that an announcement is to be played by [[said]] the toll switch when [[said]] the data indicates that said ANI the automatic number identification is not provided, said message the indication indicating that a surcharge is to be applied to [[said]] the call.~~

42. (Currently Amended) ~~A method as in claim 36~~ The method of claim 41, wherein:
~~said call-origin-data includes data indicating one of an ANI or an indication that said ANI is not provided by a local exchange company from which said call originated; and~~

~~[[said]] the selected route includes one of a human operator platform and a digit-prompter to obtain information from a caller making [[said]] the call when [[said]] the data indicates that said ANI the automatic number identification is not provided.~~

43-45 (Canceled)

46. (Currently Amended) ~~A method as in claim 45~~ The method of claim 48, further comprising the step of controlling a billing record to record data responsive to [[said]] the rate data.

47. (Currently Amended) ~~A method as in claim 46~~ The method of claim 46, further comprising the steps of reading [[said]] the billing record and generating data defining rates for billing for [[said]] the call.

48. (Currently Amended) ~~A method as in claim 45, further comprising the steps of~~ A method for controlling a computer for controlling a plurality of telecommunications switches, the method comprising:

storing, on the computer, routes through which a call may be routed to a final termination, a selected route being one of the routes, the selected route being selected from among the routes responsively to a condition satisfiable by call-origin-data defining a route of the call to an originating switch of the plurality of telecommunications switches;

receiving at the computer the call-origin-data;

determining the selected route responsively to the condition and the call-origin-data, wherein determining the selected route is effective to determine an override rate applicable to the call;

transmitting the selected route to a telecommunications switch; and

controlling an announcement system connected to [[said]] the telecommunications switch to invoke an announcement indicating a surcharge to be applied to [[said]] the call responsively to [[said]] instructions and [[said]] rate data.

49. (New) The system of claim 3, wherein:

the routing plan is such that the specific route is a third route when the initial route information lacks an identification of the caller; and

the third route is such that the announcement system is controlled to play the recording when the specific route is the third route.

50. (New) The system of claim 14, wherein the parameter is data incompletely identifying a calling party number used by the caller to place the call.

51. (New) The system of claim 14, wherein:

the parameter is data incompletely identifying the calling party number used by the caller to place the call;

the routing plan being defined such that the specific route is a third route when the data incompletely identifies the calling party number; and

the routing plan being defined such when the specific route is the third route, the announcement system is controlled to play the recording when the specific route is the third route.